



# **Defense Test, Evaluation and Acquisition: How to Make it Better**

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# AF OT&E Vision



- **Rely on combined DT/OT for majority of data for system performance evaluation**
  - Quantitative data for Effectiveness and Suitability Evaluation
- **Focus dedicated OT&E on joint force scenarios for system employment assessment**
  - Qualitative data to confirm Operational Impact Assessment



# Benefits



- **Reduce redundant testing**
  - Reduce total program time and cost?
- **Improved system of systems testing**
  - Interoperability, Information Assurance, etc.
- **Joint solutions to common problems**



# Requires.....



- **Integrated evaluation plan**
- **Common analysis tools and data bases**
  - **M&S**
- **OT-quality data in combined DT/OT**
  - **Production-representative system**
  - **Stabilized performance**
  - **Operational environment**
- **Joint/Coalition test venues**
  - **Test within large training exercises**
- **Upgraded test/training range infrastructure and instrumentation**



# Constraints.....



- **Title 10 section 2399**
  - “... no person employed by the contractor for the system being tested may be involved in the conduct of OT&E...”
- **Stabilized performance during combined DT/OT**
- **Testing in training environment**
  - **Trainer’s concerns**
    - “Can’t train with tomorrow’s systems”
    - “Testers will impact training goals/outcomes”
  - **Tester’s concerns**
    - Milestone schedule constraints



# Summary



- **OT&E support of the acquisition process and the warfighter can be improved**
  - But not without changing the rest of the acquisition process
  - And not without getting better at including testing in exercise environments
- **In any case, we need to find better ways to partner with system contractors.**